

## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

### **LISTING OF CLAIMS**

1. (Currently Amended) An antenna device for a portable radio communication device adapted for receiving radio signals, said antenna device comprising  
an internal radiating element comprising at least one feeding portion connected to a receiver circuit,

the **internal** radiating element comprising an electrical impedance that is controllable in dependence on the desired frequency range of the received signals,

wherein the at least one feeding portion is connected to a feeding input on the receiver circuit, and

wherein a control input of the electrical impedance is connected to an output on the receiver circuit intended for the control of the VCO resonance frequency of the receiver circuit, **whereby the antenna device is configured to be operable with a same signal being used for controlling both the VCO resonance frequency and an operating frequency band of the antenna device such that the operating frequency band of the antenna device follows an operating frequency band of the receiver circuit.**

2. (Currently Amended) The antenna device according to claim 1, wherein the **electrical** impedance is a capacitive impedance.

3. (Previously Presented) The antenna device according to claim 2, wherein the electrical impedance is a varactor diode.

4. (Currently Amended) The antenna device according to claim 1, wherein the **electrical** impedance is an inductive impedance.

5. (Previously Presented) The antenna device according to claim 1, wherein the radio signals for which the antenna device is adapted have a frequency below 110 MHz, preferably between 76 and 110 MHz, and even more preferably between 88 and 108 MHz.

6. (Currently Amended) The antenna device according to claim 1, wherein the **internal** radiating element is a loop.

7. (Currently Amended) The antenna device according to claim 1, wherein the **internal** radiating element is arranged in several turns.

8. (Currently Amended) The antenna device according to claim 1, wherein the **internal** radiating element is arranged on a battery package.

9. (Currently Amended) The antenna device according to claim 8, wherein the **internal** radiating element is connected to the receiver circuit by means of connectors provided on the battery package.

10. (Currently Amended) The antenna device according to claim 1, wherein the **internal** radiating element is arranged as a spiral.

11. (Currently Amended) The antenna device according to claim 1, wherein the **internal** radiating element of the antenna device is provided outside of the edge of a PCB provided in the radio communication device.

12. (Currently Amended) The antenna device according to claim 1, wherein the **internal** radiating element is provided above a dielectric material.

13. (Previously Presented) The antenna device according to claim 1, comprising at least two orthogonal radiating elements, each comprising at least one feeding portion connected to the receiver circuit and an electrical impedance.

14. (Currently Amended) A portable radio communication device comprising a casing and an antenna device according to claim 1 within the casing.

15. (Previously Presented) The antenna device according to claim 2, wherein the radio signals for which the antenna device is adapted have a frequency below 110 MHz, preferably between 76 and 110 MHz, and even more preferably between 88 and 108 MHz.

16. (Previously Presented) The antenna device according to claim 4, wherein the radio signals for which the antenna device is adapted have a frequency below 110 MHz, preferably between 76 and 110 MHz, and even more preferably between 88 and 108 MHz.

17. (Currently Amended) The antenna device according to claim 2, wherein the internal radiating element is a loop, is arranged in several turns, or arranged as a spiral.

18. (Currently Amended) The antenna device according to claim 4, wherein the internal radiating element is a loop, is arranged in several turns, or arranged as a spiral.

19. (Currently Amended) The antenna device according to claim 2, wherein the internal radiating element is arranged on a battery package, is provided outside of the edge of a PCB provided in the radio communication device, or provided above a dielectric material.

20. (Currently Amended) The antenna device according to claim 4, wherein the internal radiating element is arranged on a battery package, is provided outside of the edge of a PCB provided in the radio communication device, or provided above a dielectric material.